

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-20. (Canceled)
21. (New) A method for controlling a device for setting a material placed on a textile, comprising the steps of:
- receiving a power intensity value;
 - initiating a counter;
 - incrementing the counter by the power intensity value;
 - determining whether the counter is greater than a base resolution; and,
 - generating a power intensity output signal based on a determination that the counter is greater than the base resolution.
22. (New) The method of Claim 21, wherein the steps of the method are repeated continuously until the expiration of a predetermined period of time.
23. (New) The method of Claim 21, further comprising the step of:
- selecting the power intensity value via a power intensity selector.
24. (New) The method of Claim 21, further comprising the steps of:
- determining a feature of the device; and,
 - generating a shutdown signal based on a determination that the feature has exceeded a predetermined threshold value.
25. (New) The method of Claim 21, further comprising the step of:
- re-initiating the counter after generating the power intensity output signal.
26. (New) The method of Claim 21, further comprising the step of:
- transmitting the power intensity output signal to a device for setting the material.
27. (New) The method of Claim 21, further comprising the step of:
- selecting at least one of a plurality of lamps to receive the power intensity output signal.
28. (New) A system for controlling a device for setting a material placed on a textile, the device operably connected to a programmable logic controller comprising:

- a power intensity value;
- an application module for:
 - initiating a counter;
 - incrementing the counter by the power intensity value;
 - determining whether the counter is greater by a base resolution; and,
 - generating a power intensity output signal based on a determination that the counter is greater than the base resolution.
- 29. (New) The system of Claim 28, wherein a shutdown signal is generated for the system upon the expiration of a predetermined period of time.
- 30. (New) The system of Claim 29, further comprising a time cycle selector for determining the predetermined period of time.
- 31. (New) The system of Claim 28, further comprising a power intensity selector for determining the power intensity value.
- 32. (New) The system of Claim 28, further comprising a sensor for determining a feature of the system.
- 33. (New) The system of Claim 32, further comprising an actuator for generating a shutdown signal upon a determination that the feature has exceeded a predetermined threshold value.
- 34. (New) The system of Claim 28, wherein the application module is also for re-initiating the counter after generating the power intensity output signal.
- 35. (New) The system of Claim 28, wherein the application module is also for transmitting the power intensity output signal to a device for setting the material.
- 36. (New) The system of Claim 28, further comprising a selector for selecting at least one of a plurality of lamps to receive the power intensity output signal.
- 37. (New) A system for controlling a device for setting material placed on a textile, the device operably connected to a programmable logic controller comprising:
 - a power intensity selector for selecting a power intensity value;
 - a time cycle selector for selecting a duration value;
 - a temperature selector for selecting a temperature value;

a base resolution selector for selecting a base resolution;
a selector for selecting at least one of a plurality of lamps to receive the power intensity output signal; and

an application module comprising logic for:

initiating a counter;

incrementing the counter by the power intensity value;

determining whether the counter is greater than the base resolution;

upon a determination that the counter is greater than the base resolution,

generating a power intensity output signal and decrementing the counter by the base resolution;
otherwise, incrementing the counter by the power intensity value;

sensing the temperature of an element of the system;

determining whether the temperature of the element of the system has exceeded the temperature value;

upon a determination that the temperature of the element of the system has exceeded the temperature value, generating a system shutdown signal;

determining whether the counter has exceeded the duration value; and,

upon a determination that the counter has exceeded the duration value, generating a system shutdown signal.